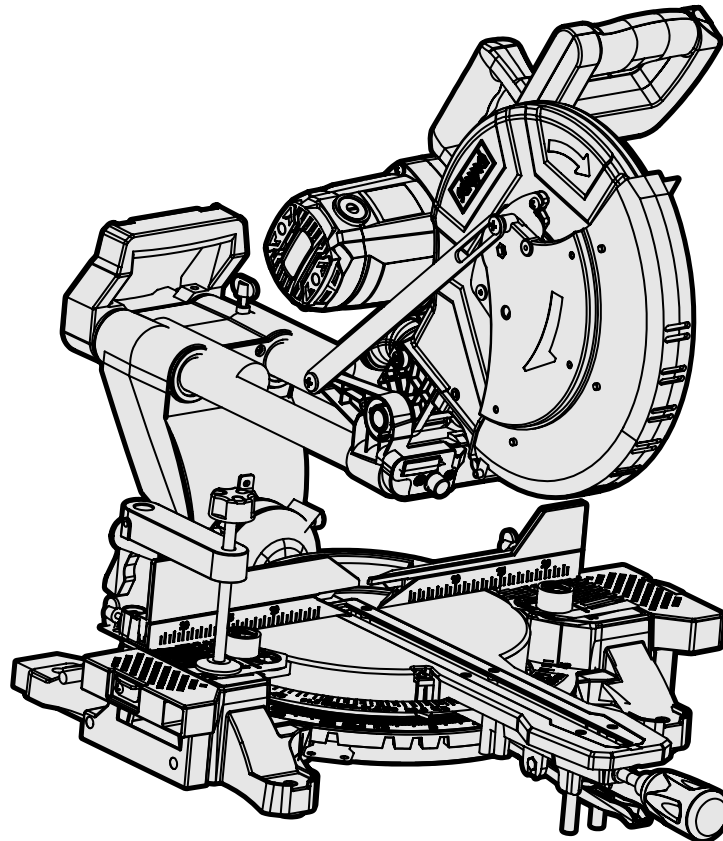




MODEL MM1213

12-INCH SLIDE COMPOUND MITER SAW

Instruction Manual



NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

 **1-847-429-9263 (M-F 8AM-5PM CST)** |  **TECHSUPPORT@WENPRODUCTS.COM**

IMPORTANT: Your new tool has been engineered and manufactured to WEN's highest standards for dependability, ease of operation, and operator safety. When properly cared for, this product will supply you years of rugged, trouble-free performance. Pay close attention to the rules for safe operation, warnings, and cautions. If you use your tool properly and for its intended purpose, you will enjoy years of safe, reliable service.

For replacement parts and the most up-to-date instruction manuals, visit ***WENPRODUCTS.COM***

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To purchase accessories and replacement parts for your tool, visit **WENPRODUCTS.COM**

Replacement Miter Saw Blades (Model BL1248)
Replacement Carbon Brushes (Part MM1213-223)
Miter Saw Stand (Model MSA200, MSA750T, MSA330)

INTRODUCTION

Thanks for purchasing the WEN Miter Saw. We know you are excited to put your tool to work, but first, please take a moment to read through the manual. Safe operation of this tool requires that you read and understand this operator's manual and all the labels affixed to the tool. This manual provides information regarding potential safety concerns, as well as helpful assembly and operating instructions for your tool.

 Indicates danger, warning, or caution. The safety symbols and the explanations with them deserve your careful attention and understanding. Always follow the safety precautions to reduce the risk of fire, electric shock or personal injury. However, please note that these instructions and warnings are not substitutes for proper accident prevention measures.

NOTE: The following safety information is not meant to cover all possible conditions and situations that may occur. WEN reserves the right to change this product and specifications at any time without prior notice.

At WEN, we are continuously improving our products. If you find that your tool does not exactly match this manual, please visit wenproducts.com for the most up-to-date manual or contact our customer service at **1-847-429-9263**.

Keep this manual available to all users during the entire life of the tool and review it frequently to maximize safety for both yourself and others.

SPECIFICATIONS

Model Number	MM1213	
Motor	120V, 60 Hz, 15A	
Laser Type	650 nm < 1mW, EN60825-1:2014	
Laser Class	Class II	
No-Load Speed	3800 RPM	
Blade Part Number	BL1248	
Blade Size	12 Inches (305mm)	
Arbor Size	1 Inch (25.4mm)	
Kerf	2.4mm	
Teeth	48T Carbide Teeth	
Dust Port Outer Diameter	1.55 in. (39.50mm)	
Dust Port Inner Diameter	1.28 in. (32.5mm)	
Miter Table Angles	0° to 45° Left & Right	
Bevel Cut Angles	0° to 45° Left & Right	
Positive Miter Stops	0°, 15°, 22.5°, 30°, 45°	
Cutting Capacity	0° Miter, 90° Bevel	13.0 in. x 4.1 in.
	45° Miter Left, 90° Bevel	13.0 in. x 2.4 in.
	45° Miter Right, 90° Bevel	13.0 in. x 1.3 in.
	0° Miter, 45° Bevel	9.1 in. x 4.1 in.
	45° Miter Left, 45° Bevel	9.1 in. x 2.4 in.
	45° Miter Right, 45° Bevel	9.1 in. x 1.3 in.
Product Weight	45.0 Pounds	
Product Dimensions	34.3 in. x 23.6 in. x 27.0 in.	

GENERAL SAFETY RULES

 **WARNING!** Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Safety is a combination of common sense, staying alert and knowing how your item works. The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

SAVE THESE SAFETY INSTRUCTIONS.

WORK AREA SAFETY

- 1. Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- 2. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- 3. Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

ELECTRICAL SAFETY

- 1. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- 2. Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- 3. Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- 4. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- 5. When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.

6. If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply. Use of a GFCI reduces the risk of electric shock.

PERSONAL SAFETY

- 1. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- 2. Use personal protective equipment. Always wear eye protection.** Protective equipment such as a respiratory mask, non-skid safety shoes and hearing protection used for appropriate conditions will reduce the risk of personal injury.
- 3. Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
- 4. Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- 5. Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- 6. Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts.

GENERAL SAFETY RULES

⚠ WARNING! Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Safety is a combination of common sense, staying alert and knowing how your item works. The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

SAVE THESE SAFETY INSTRUCTIONS.

7. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

POWER TOOL USE AND CARE

1. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.

2. Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

3. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

4. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

5. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

7. Use the power tool, accessories and tool bits, etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

8. Use clamps to secure your workpiece to a stable surface. Holding a workpiece by hand or using your body to support it may lead to loss of control.

9. KEEP GUARDS IN PLACE and in working order.

SERVICE

1. Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.


CALIFORNIA PROPOSITION 65 WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities may contain chemicals, including lead, known to the State of California to cause cancer, birth defects, or other reproductive harm. Wash hands after handling. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks, cement, and other masonry products.
- Arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area with approved safety equipment such as dust masks specially designed to filter out microscopic particles.

MITER SAW SAFETY WARNINGS

 **WARNING!** Do not operate the miter saw until you have read and understood the following instructions and the warning labels.

SAW BLADE SAFETY

1. Always wear protective gloves when handling saw blades.

2. Only use blades with correct size and type for both your miter saw and your workpiece.

- The rated diameter of the saw blade is 12" with a 1 inch (25.4mm) arbor.

- The no-load speed of the miter saw is 6000 RPM. The maximum permissible speed of your saw blade should always be higher than the no-load rotational speed of the saw.

3. Never use damaged or deformed saw blades. Only use sharp blades.

4. Install the saw blade in the correct orientation indicated in the instructions.

5. Keep hands out of path of saw blade. Never use your hands to remove sawdust, chips or workpiece near the saw blade or the cutting path of the saw.

6. Never reach around saw blade or reach in back of the saw blade.

7. Do not use blades made from high-speed steel, abrasive blades, metal-cutting blades or masonry-cutting blades. The guards of this saw are not designed to protect against the failure of such blades.

8. The use of accessories or attachments not recommended by the manufacturer may result in a risk of personal injury.

PERSONAL SAFETY

1. Operate in a well ventilated area. Keep the floor area around the miter saw level and free of slippery substances or other tripping hazards.

2. Wear ANSI-approved safety goggles to protect your eyes from sparks and saw dust. Use hearing protection to protect yourself from hearing loss.

3. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to pacemakers could cause pacemaker interference or pacemaker failure.

4. Wear work gloves when handling saw blades. DO NOT wear gloves while operating the saw.

5. Sawdust is harmful to your health. Use NIOSH-approved dust masks or other respiratory protection during operation and cleaning.

6. Always turn off and unplug the miter saw before making any adjustments or repair tasks. Never adjust the miter saw or the workpiece while the saw is running.

7. The lock down pin is to be used only to lock the head in place for carrying and storage. It is not to be used for any cutting operation.

8. Never use damaged or incorrect blade flanges or bolt. The blade flanges and bolt were specially designed for your saw, for optimum performance and safety of operation.

9. Do not use to cut metal, logs, tree limbs, or uneven lumber.

10. Wet lumber, green (unseasoned) lumber, and pressure treated lumber all have an increased potential for kickback and should only be cut with a blade specifically designed for that lumber type. Wear a NIOSH-approved respirator and have appropriate ventilation whenever cutting pressure treated lumber.


PREPARING THE MITER SAW

1. When transporting the miter saw, carry it by either the carrying handle or the base. Never carry the device by its guards or its accessories. Make sure that the lower part of the saw blade is covered by the blade guard during transportation.

2. Securely bolt the miter saw onto a miter saw stand or a workbench before operating.

3. Examine the miter saw for any damaged or missing parts. Replace or repair damaged parts before operation. Periodically check that all nuts, bolts and other fasteners are properly tightened.

MITER SAW SAFETY WARNINGS

 **WARNING!** Do not operate the miter saw until you have read and understood the following instructions and the warning labels.

SECURE YOUR WORKPIECE

1. Always position the workpiece on the miter table and firmly against the fence. Use the included hold-down clamp to secure the workpiece. Never perform any operation freehand.
2. Use a clamp or other securing methods to support the workpiece whenever possible.
3. When cutting round workpieces, use clamps on both sides of the table to prevent the workpiece from turning. Position the convex (curved) side against the fence.
4. Always support long workpieces properly using stands or roller tables.
5. Never hand-hold a workpiece that is too small to be clamped, as it can be launched away and cause injury. Use proper support and guides to secure the small workpiece.

DURING CUTTING OPERATIONS

1. Make sure the path of the saw blade is clear of obstruction. Before turning on the miter saw, do a dry run and make sure that the saw blade does not touch anything other than the workpiece during its entire line of travel.
2. Always stand to one side when operating the saw. Never have any part of the body in line with the path of the saw.
3. Feed work into a blade against the direction of rotation of the blade only.
4. Do not use the miter saw unless all guards are in place. Do not operate with any guard disabled, damaged, or removed. Moving guards must move freely and close instantly.
5. Turn on the miter saw and let it reach full speed, then slowly lower the saw into the workpiece. This will help produce safer and cleaner cuts.

6. During slide cutting, always push the saw blade away from you. Do not pull the saw towards you.
7. Never cut more than one piece at a time. Do not stack workpieces together.
8. Turn off tool and wait for saw blade to stop before moving workpiece or changing settings. Do not slow or stop a blade with a piece of wood. Let the blade come to rest naturally. Do not attempt to free a jammed blade while the machine is still running.
9. To reduce risk of injury, return carriage to the full rear position after each crosscut operation.

LASER SAFETY

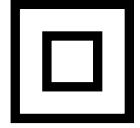
 **ATTENTION: LASER RADIATION.** Class 2 laser.
DO NOT STARE INTO THE BEAM

1. Do not look directly into the laser beam with unprotected eyes. Never look into the path of the beam.
2. Never point the laser beam towards reflecting surfaces. Never point the laser towards people or animals. Even a laser beam with a low output can cause damage to the eyes.
3. Never open the laser module as unexpected exposure to the beam can occur. The laser cannot be replaced with a different type of laser.
4. Repairs of the laser may only be carried out by the laser manufacturer or an authorized representative.

ELECTRICAL INFORMATION

DOUBLE-INSULATED TOOLS

The tool's electrical system is double insulated where two systems of insulation are provided. This eliminates the need for the usual three-wire grounded power cord. Double insulated tools do not need to be grounded, nor should a means for grounding be added to the product. All exposed metal parts are isolated from the internal metal motor components with protecting insulation.



IMPORTANT: Servicing a double-insulated product requires extreme care and knowledge of the system, and should be done only by qualified service personnel using identical replacement parts. Always use original factory replacement parts when servicing.

1. **POLARIZED PLUGS.** To reduce the risk of electric shock, this equipment has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a proper outlet. Do not modify the machine plug or the extension cord in any way.

2. **GROUND FAULT CIRCUIT INTERRUPTER PROTECTION (GFCI)** should be provided on the circuit or outlet used for this power tool to reduce the risk of electric shock.

3. **SERVICE AND REPAIR.** To avoid danger, electrical appliances must only be repaired by qualified service technician using original replacement parts.

GUIDELINES AND RECOMMENDATIONS FOR EXTENSION CORDS

When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. The table below shows the correct size to be used according to cord length and ampere rating. When in doubt, use a heavier cord. The smaller the gauge number, the heavier the cord.

AMPERAGE	REQUIRED GAUGE FOR EXTENSION CORDS			
	25 ft.	50 ft.	100 ft.	150 ft.
15A	14 gauge	12 gauge	Not Recommended	

1. **EXAMINE EXTENSION CORD BEFORE USE.** Make sure your extension cord is properly wired and in good condition. Always replace a damaged extension cord or have it repaired by a qualified person before using it.

2. **DO NOT ABUSE EXTENSION CORD.** Do not pull on cord to disconnect from receptacle; always disconnect by pulling on plug. Disconnect the extension cord from the receptacle before disconnecting the product from the extension cord. Protect your extension cords from sharp objects, excessive heat and damp/wet areas.

3. **USE A SEPARATE ELECTRICAL CIRCUIT FOR YOUR TOOL.** This circuit must not be less than a 12-gauge wire and should be protected with a 15A time-delayed fuse. Before connecting the motor to the power line, make sure the switch is in the OFF position and the electric current is rated the same as the current stamped on the motor nameplate. Running at a lower voltage will damage the motor.

UNPACKING & TRANSPORTATION

UNPACKING

With the help of a friend or trustworthy foe, carefully remove the miter saw from the packaging. Make sure to take out all contents and accessories. Do not discard the packaging until everything is removed. Check the packing list below to make sure you have all of the parts and accessories. If any part is missing or broken, please contact our customer service at **1-847-429-9263**.

PACKING LIST


DESCRIPTION	QTY.
Miter Saw	1
6mm Hex Wrench	1
Dust Bag	1
Clamp	1
Left Extension Table	1
Right Extension Table	1
Saw Blade	1
Miter Lock Knob	1

The tools listed below are not included but are required for either assembly or adjustment.

- Mounting Hardware
- Combination Square
- Phillips-head Screwdriver

TRANSPORTING THE MITER SAW

Before transporting your miter saw, make sure saw arm is locked down, the miter table is locked in position and the slide lock knob is tightened. Only lift the saw by the carrying handle located on top of the belt housing or at the back of the rails. Do not lift the saw using the guards or the operating handle.

 **WARNING!** Do not plug in or turn on the tool until it is fully assembled according to the instructions. Failure to follow the safety instructions may result in serious personal injury.

KNOW YOUR MITER SAW

Safety Lock

Handle

Carbon Brush Cover

Motor

Handle

Blade Cover

Workpiece Clamp

Bevel Angle Scale

Clamp Locking Knob

Miter Angle Indicator

Adjustable Fence

Fixed Fence

Extension Table

Kerf Board

Miter Lock Knob

Miter Stop Lever

Power Trigger

Laser Switch

Dust Port

Handle

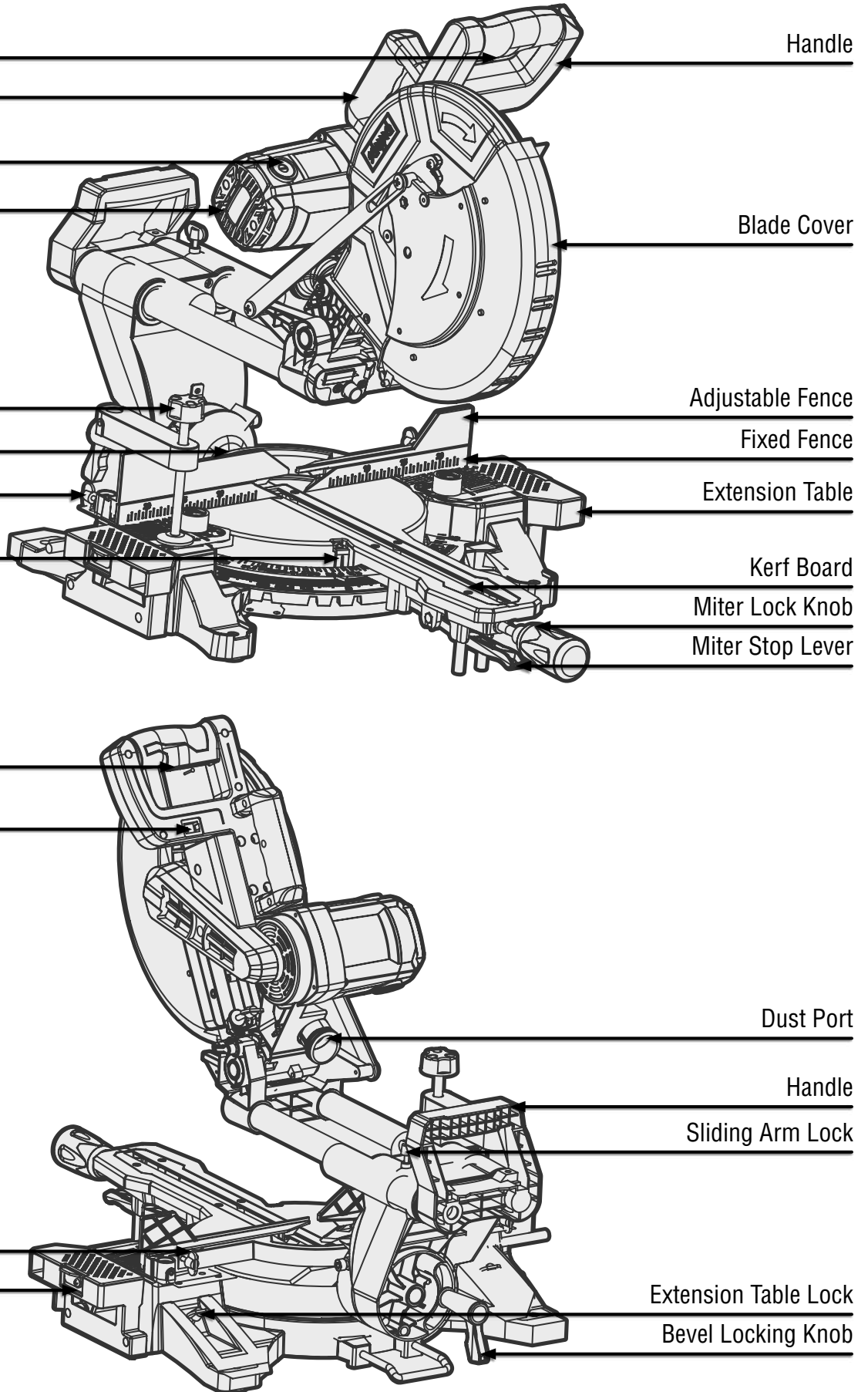
Sliding Arm Lock

Fence Locking Knob

Workpiece Stop

Extension Table Lock

Bevel Locking Knob



ASSEMBLY & ADJUSTMENTS

⚠ WARNING! Do not plug in or turn on the tool until it is fully assembled according to the instructions. Read through and become familiarized with the following procedures of handling and adjusting your miter saw. Failure to follow the safety instructions may result in serious personal injury.

INSTALLING THE MITER LOCK KNOB

1. Screw the miter lock knob (Fig. A - 1) into the miter lock until hand-tight. Do not overtighten; this could damage the miter lock.

INSTALLING THE BLADE

1. Carefully remove the blade from the packaging.

2. Holding the operating handle, lightly press down on the saw arm and pull the saw arm release pin (Fig. 1 - 1). Twist the release pin clockwise and let the saw arm rest in the upper position. Use a Phillips-head screwdriver (not included) to loosen the blade guard screw (Fig. 2 - 1) that holds the blade guard plate in place. Raise the lower blade guard (Fig. 2 - 2) and the blade guard plate so that you can access the arbor hex bolt.

3. Firmly press down the saw spindle lock (Fig. 1 - 2). Use the included 6mm hex wrench to turn the arbor bolt (Fig. 3 - 1) clockwise and remove it (the bolt is left-hand threaded). Remove the washer and outer flange. Make sure the inner flange stays in place on the arbor.

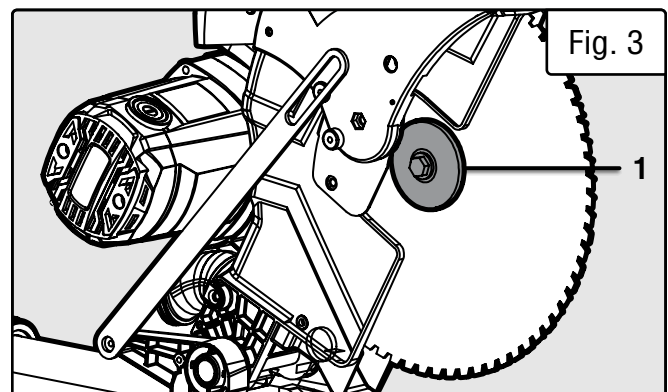
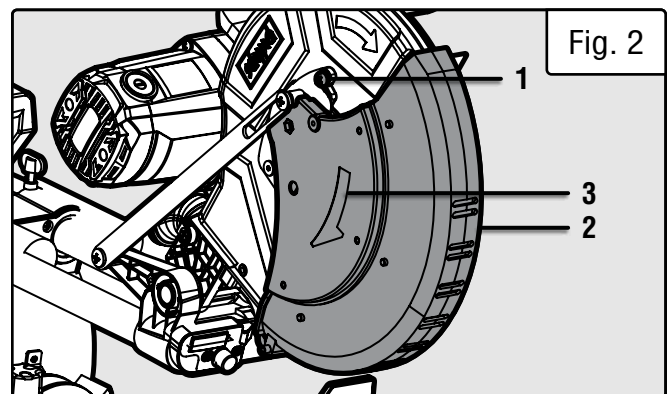
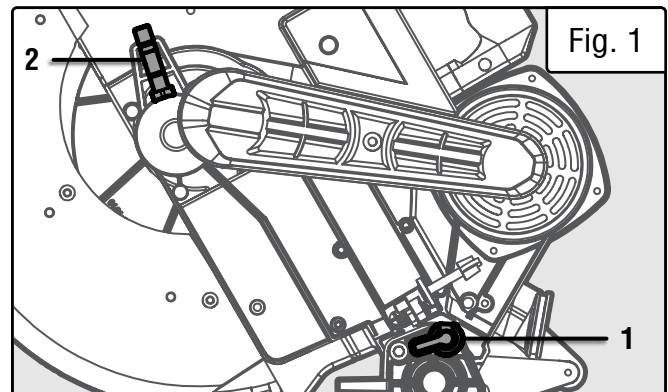
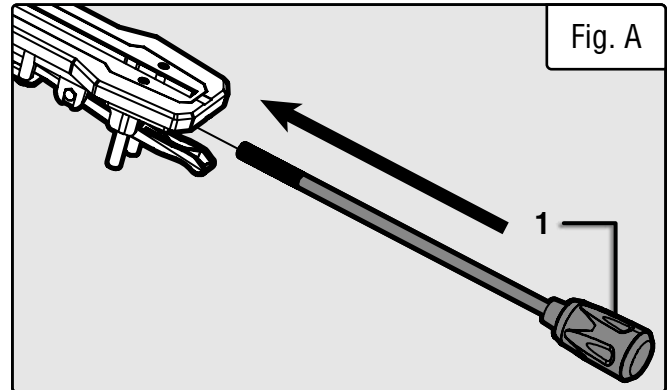
4. Place the blade onto the stepped shoulder of the inner flange. Replace the outer flange, washer, and arbor bolt. Tighten the arbor bolt while holding down the spindle lock (Fig. 1 - 2).

IMPORTANT! Make sure the blade's rotation arrow points in the same direction as the rotation arrow on the upper blade guard (Fig. 2 - 3).

5. Lower the blade guard, making sure that the blade guard is properly lowered and covering the arbor bolt. Replace the blade guard plate and tighten the blade guard screw. Make sure that the blade guard moves freely and covers the entirety of the blade.

6. Allow the lower blade guard to return back into position.

IMPORTANT! Carefully rotate the saw blade and make sure that it does not wobble. Lower the saw arm and check that the blade does not contact the kerf board with the saw at 0° and 45° bevel angles. Make sure the lower blade guard operates properly before using the saw.



ASSEMBLY & ADJUSTMENTS

GUARD OPERATION

NOTE: Keep hands clear of the blade when the operating handle is lowered. Do not interfere with the proper movement of the blade guard. **When the handle is lowered**, the blade guard raises automatically. **When the handle is raised**, the blade guard returns to its safety position, covering the blade.

RAISING/LOWERING THE SAW ARM

The saw arm needs to be raised up before operation and locked down for transporting and storing.

To raise saw arm from the lower position:

1. Holding the operating handle (Fig. 4 - 1), lightly press down on the saw arm and pull out the release pin (Fig. 4 - 2). While pulled out, turn the release pin 90 degrees so it remains locked in the outer position.

2. Slowly raise the saw arm to the upper position.

To lower saw arm from the upper position:

1. Holding the operating handle (Fig. 4 - 1), pull out the release pin (Fig. 4 - 2).

2. Slowly lower the saw arm to the lower position and twist the release pin clockwise until it locks the arm in place.

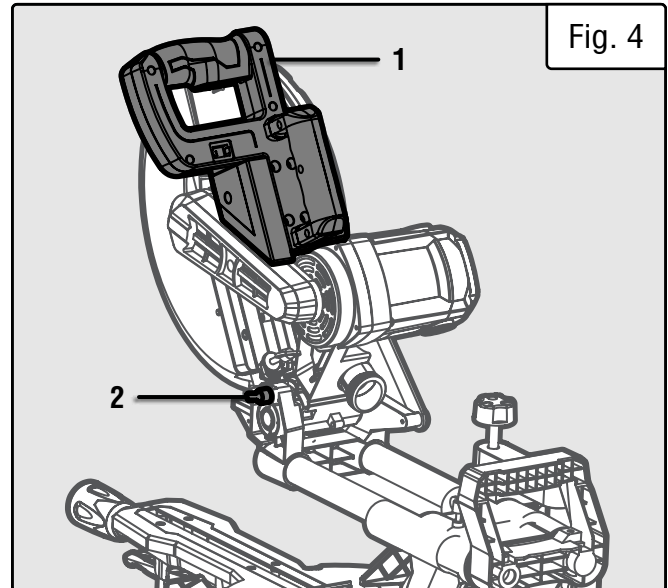


Fig. 4

ADJUSTING THE BEVEL ANGLE

The saw arm can bevel from 0° to 45° to the left and right.

1. As viewed from the rear of the saw, loosen the bevel lock knob (Fig. 5 - 1) by turning it counterclockwise. This will allow the saw to bevel to the left.

2. To bevel the saw to the right, pull the right bevel stop pin out (Fig. 5 - 2). Push the pin back into place once you are finished with your right bevel cut.

2. The saw is equipped with three bevel adjustment bolts to provide positive stops at specific bevel angles. The top right bolt (Fig. 5 - 3) provides a positive bevel angle stop at 45-degrees to the right. The top left bolt (Fig. 6 - 1) provides a positive bevel angle stop at 45-degrees to the left. The bottom bolt (Fig. 6 - 2) provides a positive bevel angle stop at 0-degrees.

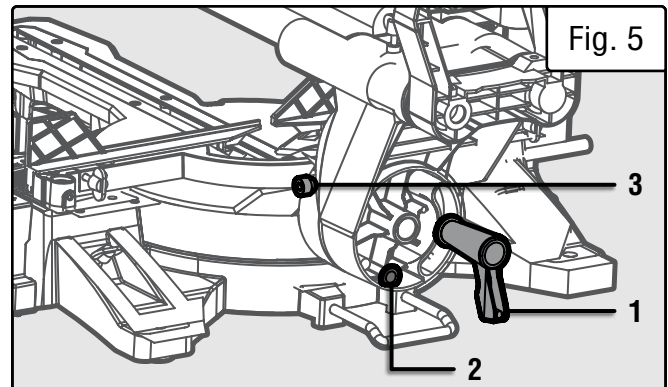


Fig. 5

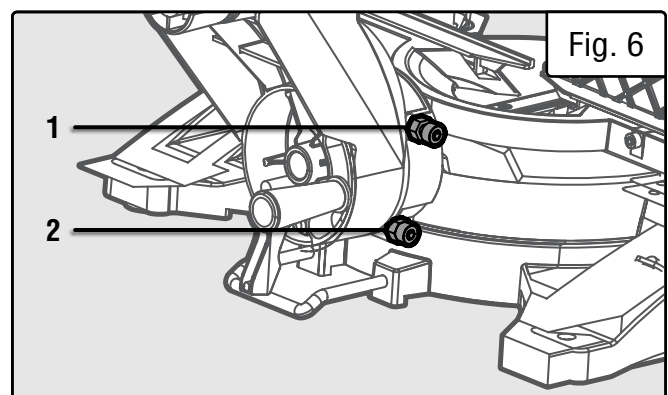


Fig. 6

NOTE: The bevel adjustment bolts have been calibrated at the factory. If adjustments are required, refer to the instructions on p. 16.

3. Tilt the saw arm until the bevel angle indicator (Fig. 7 - 1) points to the desired angle on the bevel scale.

4. Tighten the bevel lock knob by turning it clockwise. Be sure to tighten firmly without over-tightening.

ASSEMBLY & ADJUSTMENTS

⚠ WARNING! Do not plug in or turn on the tool until it is fully assembled according to the instructions. Read through and become familiarized with the following procedures of handling and adjusting your miter saw. Failure to follow the safety instructions may result in serious personal injury.

SETTING UP ARM SLIDE

The saw arm can be adjusted to different lengths using the slide bar, and can slide back and forth when cross-cutting.

For sliding cuts: Loosen the sliding bar lock knob (Fig. 7 - 2) and slide the saw arm to the desired position.

For non-sliding cuts and transportation: Tighten the sliding bar lock knob for non-sliding operations and before transporting the miter saw.

ADJUSTING THE MITER ANGLE

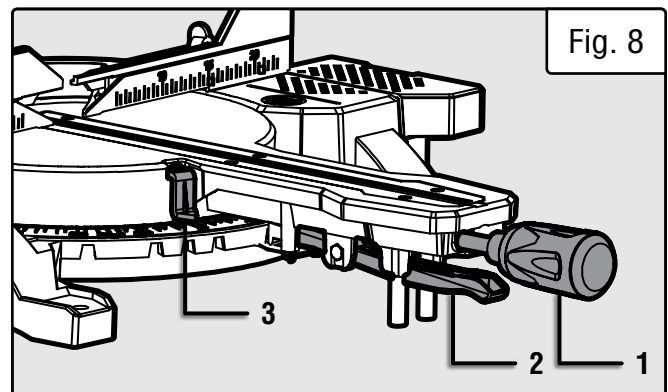
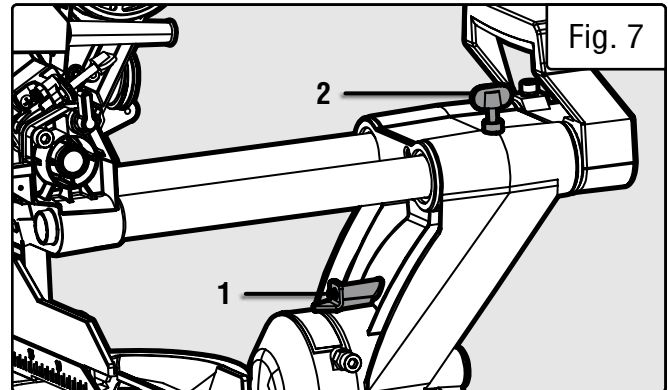
The miter table can be adjusted from 0° to 45° in either direction to create miter cuts.

1. Loosen the miter lock knob (Fig. 8 - 1) by turning it counterclockwise.

2. Pull up on the miter stop lever (Fig. 8 - 2) to unlock the table. While holding the miter angle adjustment lever up, adjust the table to the desired angle. The miter scale indicator (Fig. 8 - 3) will point towards the selected angle. To make micro adjustments to a specific angle, rotate the table while pulling up on the miter stop lever. The miter table has positive stops at 0°, 15°, 22.5°, 30°, and 45° in both directions for quick adjustments.

3. After selecting your miter angle, release the miter stop lever and tighten the miter lock knob by turning it clockwise to lock the table in place.

WARNING! Be sure the miter table is locked in place before making a cut. Failure to do so can cause the table to move during the cut, which could result in serious personal injury.



ASSEMBLY & ADJUSTMENTS

INSTALLING THE CLAMP ASSEMBLY

The included workpiece clamp can be mounted on the left or right side of the saw depending on the cutting task at hand.

1. Locate the hole for the clamp (Fig. 9 - 1) on the left or right side of the miter saw behind the fence. Insert the clamp assembly (Fig. 9 - 2) into the hole on the desired side.
2. Secure the clamp into place by tightening the clamp lock knob (Fig. 9 - 3).

NOTE: Check that the clamp won't interfere with the blade travel before operating the saw.

BENCH MOUNTING

The miter saw has four holes on the base for bench mounting (Fig. 10). Mount and fix the saw to a level, horizontal bench, worktable, or miter saw stand (compatible with WEN models MSA200, MSA330, and MSA750T) using four bolts and nuts (not included).

If desired, you can mount the saw to a piece of 1/2 inch or thicker plywood which can then be clamped to your work bench or moved to other jobsites and reclamped.

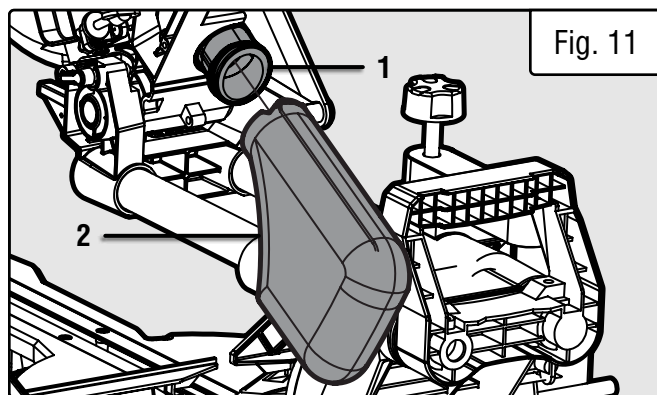
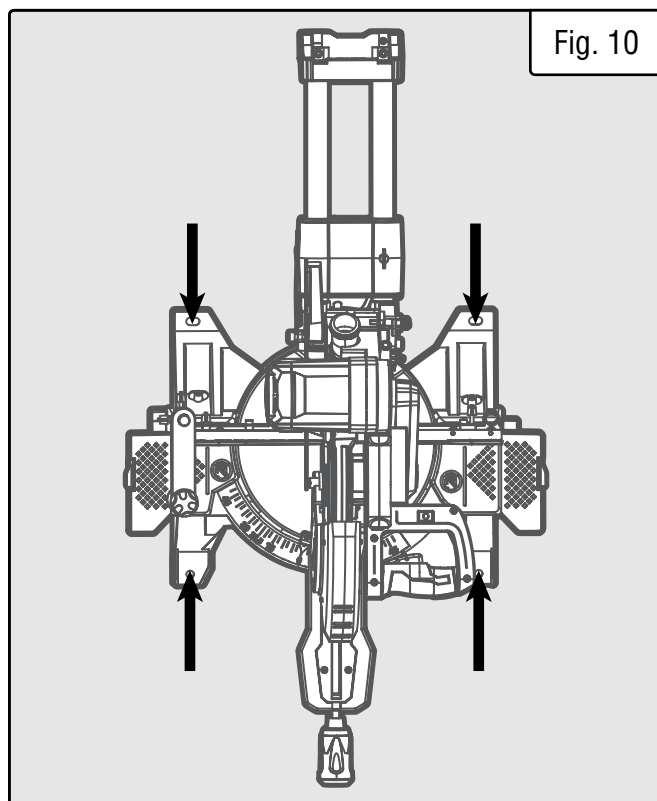
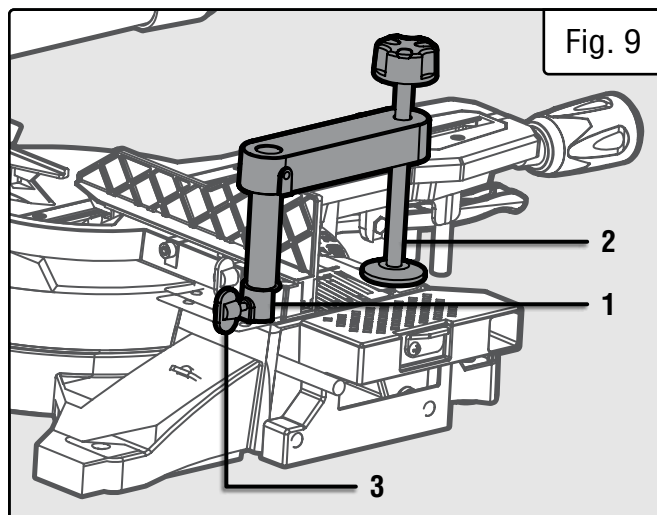
CAUTION! Make sure that the mounting surface is not warped. Uneven surfaces can cause binding and inaccurate sawing.

INSTALLING THE DUST COLLECTION BAG

The dust collection bag should be used at all times. Follow the instructions below to install the bag:

1. Locate the dust port (Fig. 11 - 1) on the back of the miter saw.
2. Slip the mouth of the dust collection bag (Fig. 11 - 2) over the dust port. Make sure that it is secured in place.
3. Open the zipper on the bottom of the bag to empty. For efficient operation, empty the dust bag when half full to allow for better air flow through the bag.
4. If desired, use a dust port adapter (not included) to connect to a dust extraction system. If needed, use a hose clamp to tightly clamp the dust hose to the adapter.

- The outer diameter of the dust port tube is 1.55 in. (39.50mm).
- The inner diameter of the dust port is 1.28 in. (32.5mm).



ASSEMBLY & ADJUSTMENTS

SQUARING THE FENCE WITH THE BLADE

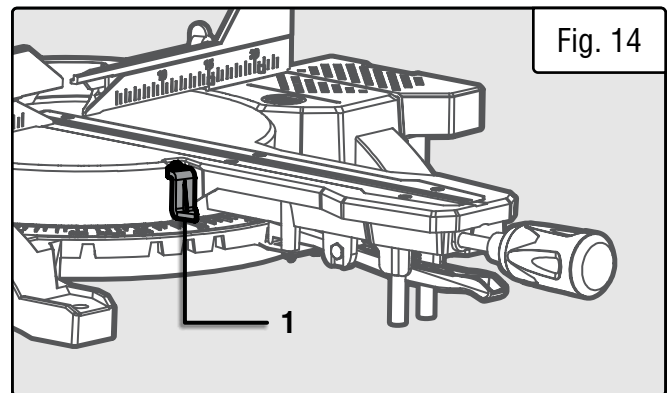
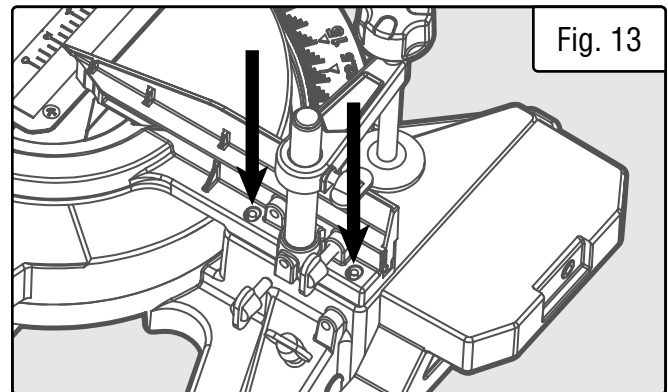
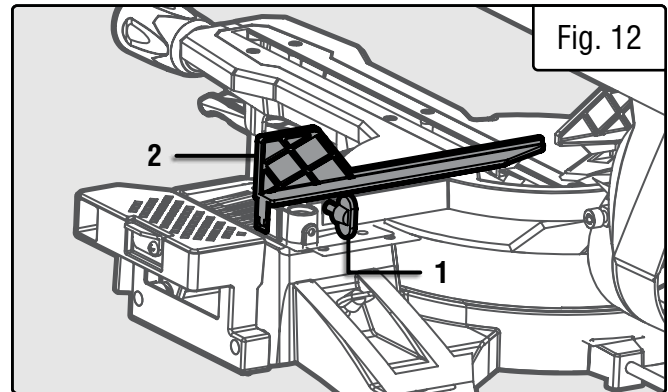
To make accurate cuts, the fence must be perpendicular to the saw blade.

1. Lower the saw arm down to the lower position and lock the release pin.
2. Slide the saw arm to the back and tighten the slide lock knob.
3. Set the miter scale indicator to 0° and tighten the miter lock knob. Place a combination square (not included) against the fence and alongside the saw blade (should be in contact with the surface of the blade, not the teeth).
4. Fully loosen the two fence adjustment knobs (Fig. 12 - 1) and remove both fence guides (Fig. 12 - 2). There are four socket-head screws (2 on either side) that hold the fence base to the saw base (Fig. 13). Using the included hex wrench, loosen these four screws and adjust the fence position until it is 90° with the blade. Tighten the four screws, replace the fence guides, and secure the fence adjustment knobs.
5. Make a test cut. Repeat step 4 until your test cut is accurate.

SETTING THE MITER SCALE INDICATOR

1. Loosen the screw holding the miter scale indicator (Fig. 14 - 1).
2. Adjust direction of the indicator so that it accurately points to 0° on the miter scale. Tighten the screw.

⚠ WARNING: To prevent serious injury, after making any adjustments to the cutting angle, make sure both sides of the fence are clear of the blade's cutting path. With the power OFF, move the blade through its full range of motion to check this.



ASSEMBLY & ADJUSTMENTS

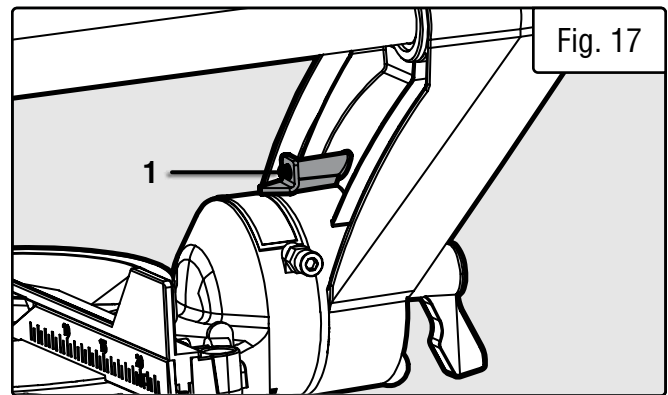
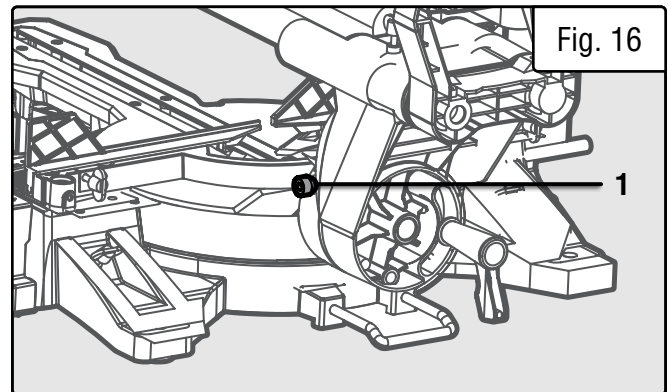
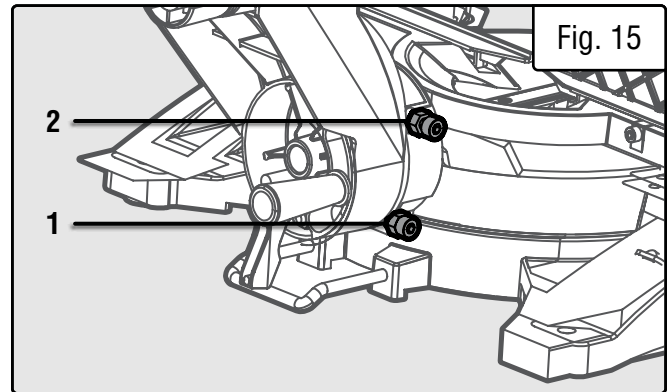
SQUARING THE TABLE WITH THE BLADE

To make accurate cuts, the table must be perpendicular to the saw blade.

1. Lower the saw arm down to the lower position and lock the release bolt.
2. Slide the saw arm to the back and tighten the slide lock knob.
3. Set the miter scale indicator to 0° and tighten the miter lock knob. Set the bevel angle indicator to 0° and tighten the bevel lock knob.
4. Place a combination square (not included) against the table and alongside the saw blade (should be in contact with the surface of the blade, not the teeth). Wearing work gloves, rotate the blade by hand and check the blade-to-table alignment at several points. The edge of the combination square and the saw blade should be parallel. If the saw blade does not lay flush against the combination square, follow steps 5 & 6 below:
5. Adjust the zero stop screw (Fig. 15 - 1) until the table is 90° with the blade. Tighten the zero stop lock nut to secure the blade.
6. Make a test cut. Repeat step 5 until test cut is accurate.
7. Repeat steps 3 - 6 with the bevel setting at 45°. Adjust the left 45-degree stop screw (Fig. 15 - 2) or right 45-degree stop screw (Fig. 16 - 1) until the table is at 45° relative to the blade.

SETTING THE BEVEL SCALE INDICATOR

1. Before setting the bevel scale indicator, the table must be perpendicular to the saw blade. See previous section.
2. Loosen the screw holding the bevel scale indicator (Fig. 17 - 1).
3. Adjust the direction of the indicator so that it accurately points to 0° on the bevel scale. Tighten the screw.



ASSEMBLY & ADJUSTMENTS

ADJUSTING THE CUTTING DEPTH

The saw cutting depth can be adjusted if you would like to perform a kerfing or rabbet cut that does not cut all the way through the workpiece.

1. Unplug the tool from its power source and raise the saw head assembly.
2. Locate the depth stop settings on the right side of the saw (Fig. 18).
3. Pull down on the saw head to check the current setting. To change the setting, continue to step 4.
4. Loosen the depth stop knob (Fig. 18 - 1). To increase depth, turn the depth stop knob counterclockwise. To decrease depth, turn the depth stop knob clockwise. Tighten the nut on the depth stop knob once the desired depth is reached.
5. Check that the blade will not hit the table, fence, kerf board, or other part of the saw during the cut. Check the cutting depth setting by completing a test cut on a piece of scrap wood. Repeat steps 4 - 5 until the desired depth is achieved.

ADJUSTING THE FENCE

1. Loosen the fence adjustment knob (Fig. 19 - 1).
2. Adjust the fence as desired. The top portion of the fence (Fig. 19 - 2) can slide to the left and right, while the bottom portion of the fence stays stationary.
3. Tighten the fence adjustment knob to lock the fence into place.

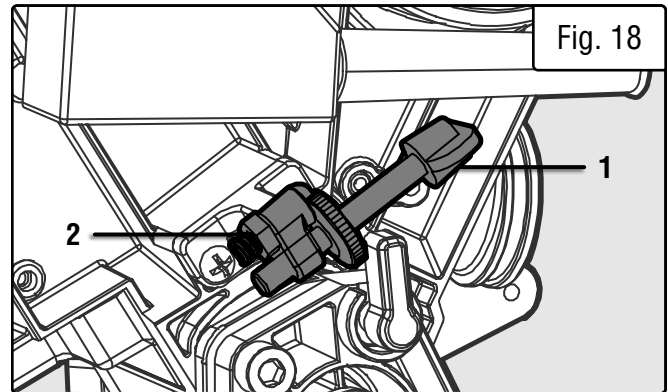


Fig. 18

⚠ WARNING: DO NOT adjust the depth stop screw (Fig. 18 - 2). Only adjust the depth stop knob. The depth stop screw is used to prevent the blade from cutting the table during normal cutting. DO NOT adjust the depth stop screw.

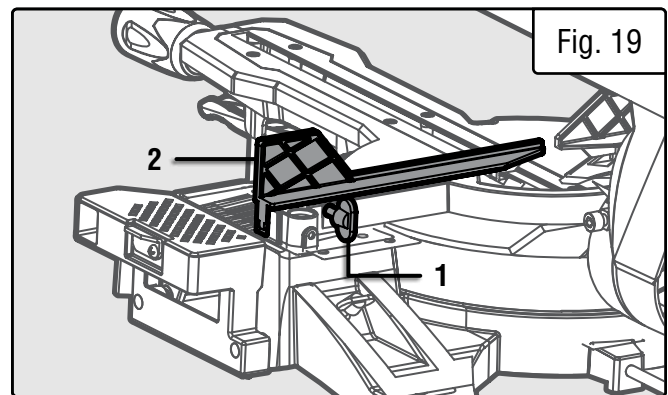


Fig. 19

⚠ WARNING: To prevent serious injury, after making any adjustments to the cutting angle, make sure both sides of the fence are clear of the blade's cutting path. With the power OFF, move the blade through its full range of motion to check this.

ASSEMBLY & ADJUSTMENTS

CHANGING THE SAW BLADE

DANGER! Never try to use a blade larger than the stated capacity of the saw. Do not use a blade thicker than 1.8mm. It will prevent the blade screw from properly securing the blade on the spindle. Install the suitable blade for your cutting operation.

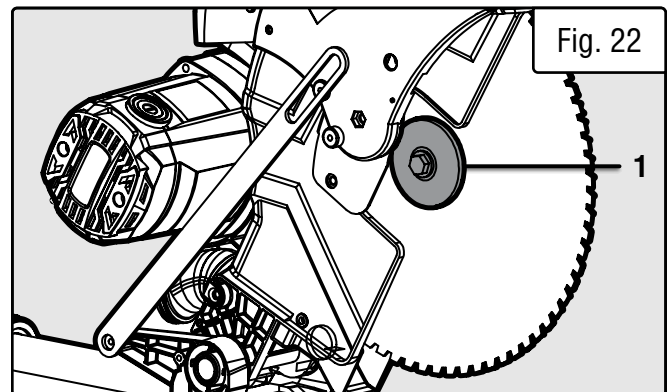
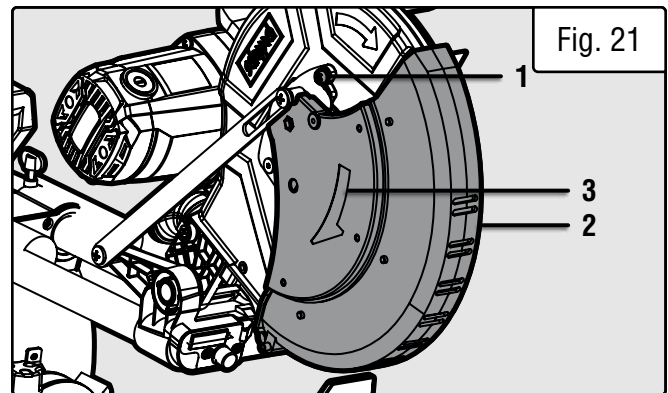
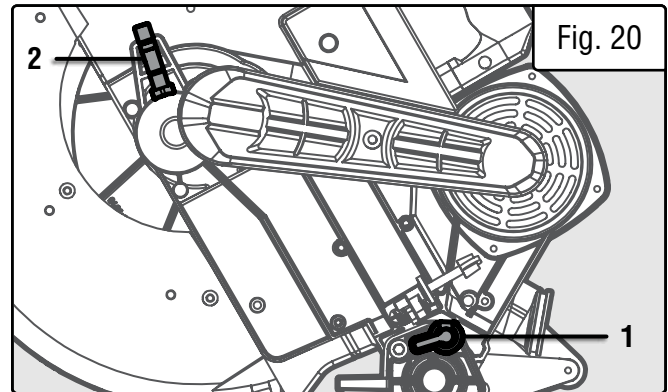
1. Unplug the tool from its power source.
2. Pull out the saw arm release pin (Fig. 20 - 1) and let the saw arm rest in the upper position. Use a Phillips-head screwdriver (not included) to loosen the blade guard screw (Fig. 21 - 1) that holds the blade guard plate in place. Raise the lower blade guard (Fig. 21 - 2) and the blade guard plate so that you can access the arbor hex bolt (Fig. 22 - 1).
3. Firmly press down the saw spindle lock (Fig. 20 - 2) below the operating handle and hold it in. Use the included 6mm hex wrench to turn the arbor bolt clockwise and remove it (the bolt is left-hand threaded). Remove the washer and outer flange. Make sure the inner flange stays in place on the arbor.
4. Slowly remove the blade by pulling it out and down. Clean the arbor bolt, washer, and outer flange.
5. Place the new blade onto the stepped shoulder of the inner flange. Replace the outer flange, washer, and arbor bolt. Tighten the arbor bolt while holding down the spindle lock (Fig. 20 - 2).

IMPORTANT: Make sure the blade's rotation arrow points in the same direction as the rotation arrow on the upper blade guard.

6. Lower the blade guard, making sure that the blade guard is properly lowered and covering the arbor bolt. Reinstall the blade guard screw. Make sure that the blade guard moves freely and covers the entirety of the blade.

7. Allow the lower blade guard to return back into position.

IMPORTANT: Carefully rotate the saw blade and make sure that it does not wobble. Lower the saw arm and check that the blade does not contact the kerf board, with the saw at 0° and 45° bevel angles. Make sure the lower blade guard operates properly before using the saw.



OPERATION

⚠ WARNING! Do not plug in or turn on the tool until it is fully assembled according to the instructions. Read through and become familiarized with the following procedures of handling and adjusting your tool. Failure to follow the safety instructions may result in serious personal injury.

⚠ WARNING! Before operating the miter saw, make sure to equip yourself with a dust mask, ear protection, and safety glasses for protection from possible injuries. Tie back long hair and do not wear loose clothing or jewelry. DO NOT look into the laser beam, this can cause serious eye damage or blindness. Do not wear gloves while operating the saw.

1. RAISE THE SAW ARM

Before operation, raise the saw arm from the lower position. See section titled, "RAISING / LOWERING THE SAW ARM".

2. SET UP THE CUT ANGLE & DEPTH

The miter saw can be set up to create cuts at different angles by adjusting the angle of the miter table and the saw bevel angle. There are four types of cuts you can create: a cross cut, a miter cut, a bevel cut, and a compound cut. See Fig. 23 to understand each type of cut. If you do not want to cut all the way through your workpiece, adjust the cutting depth. See note below.

To adjust the bevel angle: see section titled, "ADJUSTING THE BEVEL ANGLE".

To adjust the miter angle: see section titled, "ADJUSTING THE MITER ANGLE".

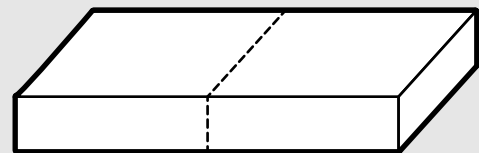
To adjust the cutting depth: see section titled, "ADJUSTING THE CUTTING DEPTH".

3. SET UP SLIDING FUNCTION

For materials with a width under 2-1/2 inches (63mm): The sliding function isn't necessary. See section titled, "SETTING UP ARM SLIDE" to disable the sliding function.

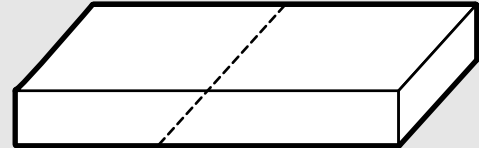
For materials with a width over 2-1/2 inches (63mm): The saw arm will need to slide to cut through the workpiece. See section titled, "SETTING UP ARM SLIDE" to enable the sliding function.

Fig. 23



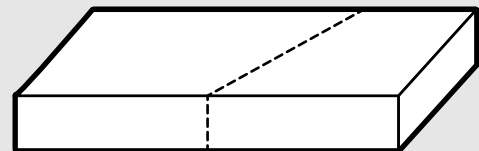
CROSS CUT

Miter table 0°, Saw arm 0°



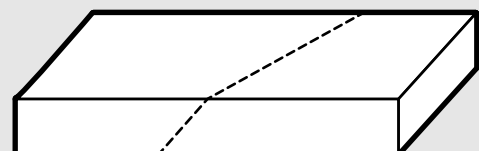
BEVEL CUT

Miter table 0°, Saw arm 0° - 45°



MITER CUT

Miter table 0° - 45°, Saw arm 0°



COMPOUND CUT

Miter table 0° - 45°, Saw arm 0° - 45°

OPERATION

⚠ WARNING! Do not plug in or turn on the tool until it is fully assembled according to the instructions. Read through and become familiarized with the following procedures of handling and adjusting your tool. Failure to follow the safety instructions may result in serious personal injury.

⚠ WARNING! Before operating the miter saw, make sure to equip yourself with a dust mask, ear protection, and safety glasses for protection from possible injuries. Tie back long hair and do not wear loose clothing or jewelry.

4. SET UP WORKPIECE

Place the workpiece flat on the table with one edge securely against the fence (Fig. 24).

Warped Boards: If the board is warped, place the concave side against the table (Fig. 25). **CAUTION:** The board could break and jam the blade if the convex side is placed against the table.

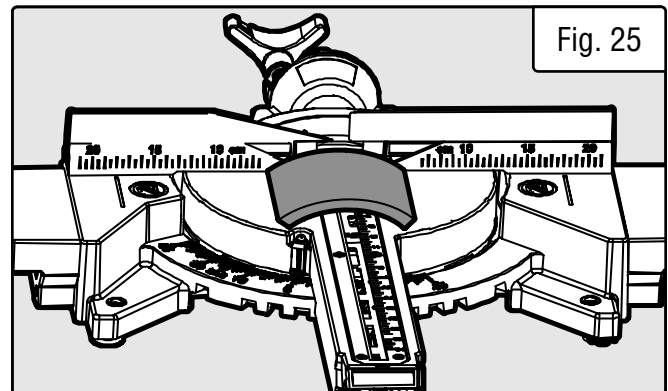
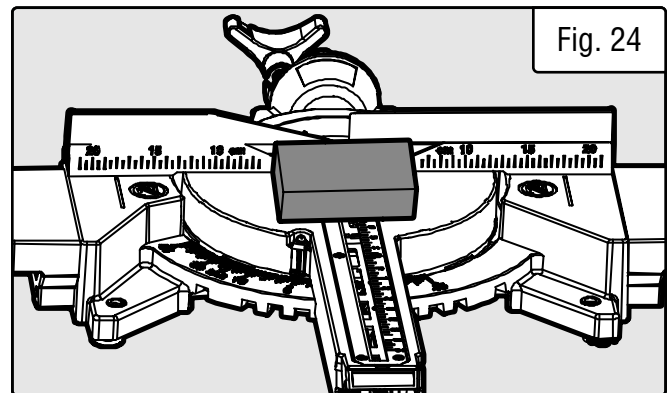
Long Boards: When cutting long workpieces, support the opposite end of the material with the support bars, a roller stand, or a work surface that is level with the saw table.

5. SECURE WORKPIECE

Secure the workpiece with the hold-down clamp on the fixed table whenever possible to prevent the material from moving during the cutting operations. See section, "Installing the Clamp Assembly" on page 13.

6. CHECK BEFORE OPERATION

- Check that the miter table does not rotate and the saw arm does not bevel.
- Check that the workpiece is fully supported, against the fence and securely clamped down.
- Check that you have the proper blade for the material you are cutting.
- Without turning on the saw, perform a dry run of the cutting operation to check that nothing is obstructing the path of the saw.



⚠ WARNING: Be sure to tighten the miter lock and bevel lock before making a cut. Failure to do so could result in the table moving during the cut and may cause serious personal injuries.

OPERATION

7. PERFORM THE CUT

1. Plug in the miter saw. Turn on the laser power switch (Fig. 26 - 1) to see where your cut will land on the material.

CAUTION: DO NOT look into the laser light or point it at any living thing.

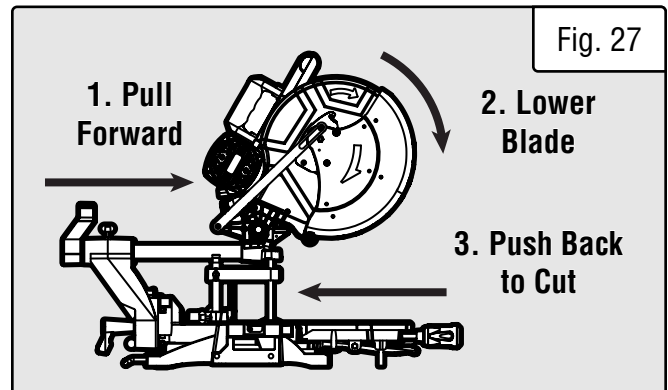
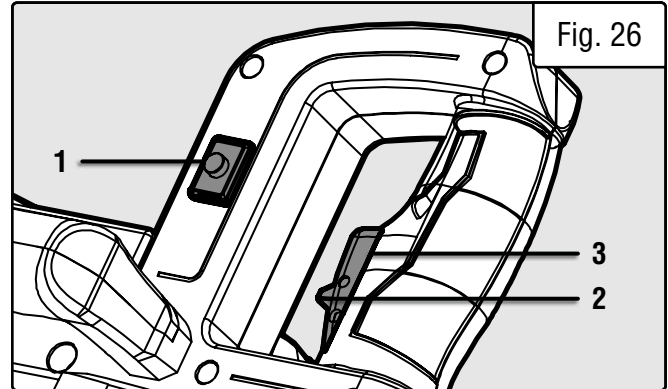
2. Grip the operating handle firmly, press in the power switch lock (Fig. 26 - 2) and squeeze the power trigger (Fig. 26 - 3) to turn the saw ON.

3. Allow the blade to reach full speed. Make sure the workpiece is held securely against the table and fence at all times. If the material binds the blade, release the power trigger.

- **For non-sliding cuts:** Slowly lower the blade into and through the workpiece.
- **For sliding cuts:** Pull the saw arm all towards the front of the machine. Slowly lower the blade into the workpiece while steadily pushing it away from you until the workpiece is cut (Fig. 27). **CAUTION:** Never slide the saw arm towards yourself while cutting. Always push away.

4. Release the power trigger and wait until the blade fully stops before raising it from the workpiece.

5. Unplug the miter saw before leaving your work station. Clean your work station and store tools out of reach of children.



MAINTENANCE

⚠ WARNING! To avoid accidents, turn OFF and unplug the tool from the electrical outlet before cleaning, adjusting, or performing any maintenance work.

⚠ WARNING! Any attempt to repair or replace electrical parts on this tool may be hazardous. Servicing of the tool must be performed by a qualified technician. When servicing, use only identical WEN replacement parts. Use of other parts may be hazardous or induce product failure.

NOTE: Electric tools used on fiberglass material, wallboard, spackling compounds, or plaster are subject to accelerated wear and possible premature failure because the fiberglass chips and grindings are highly abrasive to bearings, brushes, commutators, etc. Consequently, we do not recommend using this tool for extended work on these types of materials. However, if you do work with any of these materials, it is extremely important to clean the tool using compressed air after operation.

ROUTINE INSPECTION

Before each use, inspect the general condition of the tool. If any of these following conditions exist, do not use until parts are replaced or the saw is properly repaired.

Check for:

- Loose hardware
- Misalignment or binding of moving parts
- Damaged cord/electrical wiring
- Cracked or broken parts
- Any other condition that may affect its safe operation

CLEANING & STORAGE

CAUTION! Most plastics are susceptible to damage from various types of commercial solvents. Do not use any solvents or cleaning products that could damage the plastic parts. Some of these include but are not limited to: gasoline, carbon tetrachloride, chlorinated cleaning solvents, and household detergents that contain ammonia.

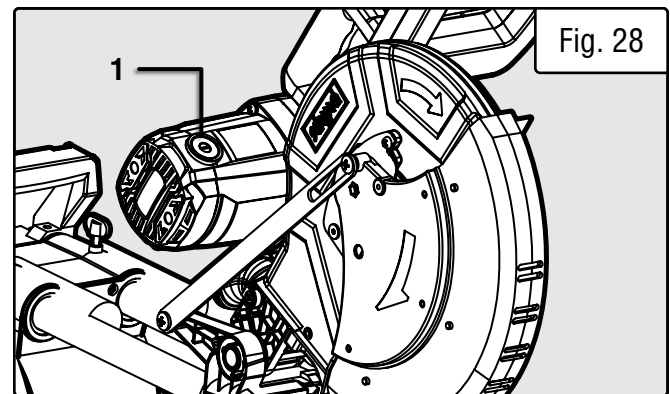
1. Keep the ventilation openings free from dust and debris to prevent the motor from overheating.
2. Wipe the tool surfaces clean with a clean cloth. Make sure water does not get into the tool.
3. Store the tool in a clean and dry place away from the reach of children. Store in temperatures between 41° to 86°F.
4. Cover the miter saw in order to protect it from dust and moisture. It is preferable to store it in its original packaging with the instruction manual and all accessories.

LUBRICATION

The bearings of your miter saw are permanently sealed and require no extra lubrication. The gearbox is also sufficiently lubricated from the factory and requires no additional lubrication.

CARBON BRUSH REPLACEMENT

Replacement carbon brushes (**Part No. MM1213-223**) can be ordered at wenproducts.com. Only genuine WEN replacement brushes designed specifically for your tool should be used. Carbon brushes are **not** covered under the two-year warranty.



1. To access the carbon brushes, remove the carbon brush cap (Fig. 28 - 1) on the underside of the motor housing.
2. Carefully remove the old carbon brushes using pliers.
3. Install the new carbon brushes. Both carbon brushes should be replaced at the same time. Replace the motor end cap.

NOTE: New carbon brushes tend to spark for a few minutes during the first use as they wear down.

MAINTENANCE

PRODUCT DISPOSAL

Used power tools should not be disposed of together with household waste. This product contains electronic components that should be recycled. Please take this product to your local recycling facility for responsible disposal and to minimize its environmental impact.



Please recycle the packaging and electronic components where facilities exist.

TROUBLESHOOTING GUIDE

⚠ WARNING! Stop using the tool immediately if any of the following problems occur. Repairs and replacements should only be performed by an authorized technician. For any questions, please contact our customer service at **1-847-429-9263**, M-F 8-5 CST or email us at **techsupport@wenproducts.com**.

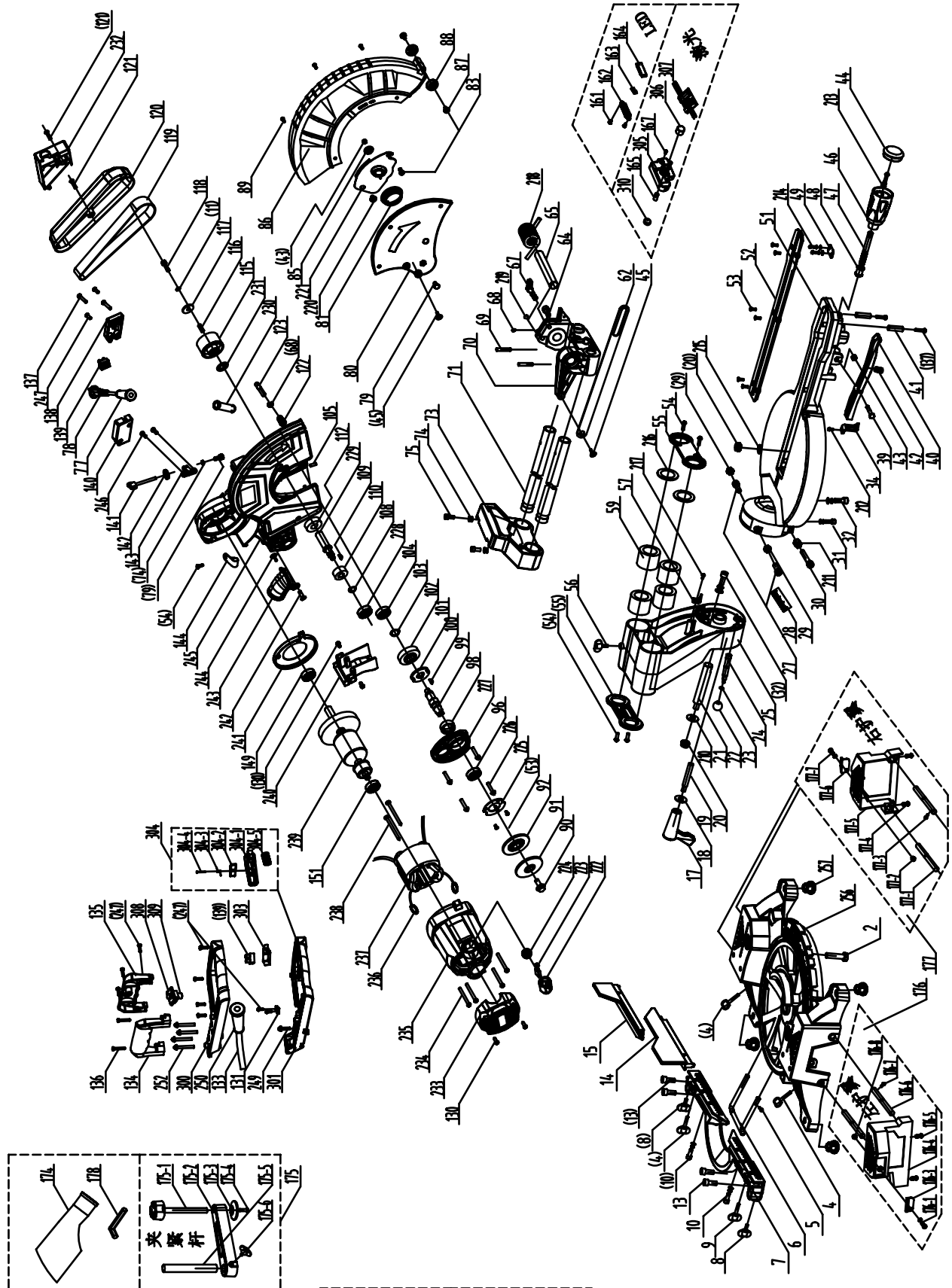
PROBLEM	CAUSE	SOLUTION
Ineffective cutting performance.	1. Blade is dull.	1. Sharpen or replace blade.
	2. Blade is dirty.	2. Remove the blade and clean the surface and cutting edge with steel wool and turpentine.
	3. The blade is not secure.	3. Make sure the blade flanges are flush against the blade and arbor bolt is tightened completely.
	4. Incorrect blade used for workpiece.	4. Ensure the blade is compatible with the material type and thickness being cut.
	5. Blade is installed improperly.	5. Ensure blade is installed in correct orientation.
Excessive noise or vibration.	1. Not mounted properly.	1. Make sure the saw is mounted securely to a flat and level work surface.
	2. Blade is damaged.	2. Replace blade.
	3. Blade is not secure.	3. Make sure the blade flanges are flush against the blade and arbor bolt is tightened completely.
Blade will not turn.	1. Excessive sawdust or chips between blade and frame.	1. Clean the space between the blade and frame with compressed air and ensure no chips are stuck within.
	2. Spindle lock is engaged.	2. Disengage the spindle lock; move blade back and forth to ensure it is disengaged.

TROUBLESHOOTING GUIDE

⚠ WARNING! Stop using the tool immediately if any of the following problems occur. Repairs and replacements should only be performed by an authorized technician. For any questions, please contact our customer service at **1-847-429-9263**, M-F 8-5 CST or email us at **techsupport@wenproducts.com**.

PROBLEM	CAUSE	SOLUTION
Motor does not start.	1. Power cord damaged or not properly plugged in.	1. Check the power cord, extension cord, power plug, and the power outlet. Do not use the tool if any cord is damaged.
	2. Defective power switch.	2. Stop using the tool and call 1-847-429-9263 for customer service.
	3. Insufficient power from power outlet.	3. Make sure the outlet is functional and is the right capacity for the tool.
	4. Worn carbon brushes.	4. Inspect and replace carbon brushes as needed. Replacement carbon brushes (Part No. MM1014-111) can be ordered from wenproducts.com .
	5. Defective motor or other internal problem.	5. Stop using the tool and call 1-847-429-9263 for customer service.
Saw overheats.	1. Tool forced to work too fast.	1. Do not force the tool. Let it work at its own pace. Ensure blade selection is appropriate for cut type and workpiece.
	2. Wrong extension cord gauge.	2. Select proper extension cord. Refer to "ELECTRICAL INFORMATION".
	3. Blocked motor housing vents.	3. Wear safety glasses & dust mask. Blow dust out of motor housing vents.

EXPLODED VIEW & PARTS LIST



NOTE: Not all parts may be available for purchase. Parts and accessories that wear down over the course of normal use are not covered under the warranty.

EXPLODED VIEW & PARTS LIST

No.	Part. No.	Description	Qty.
2	MM1213-002	Hex Bolt, M10x40	1
4	MM1014-035	Screw Knob, M6x40	3
5	MM1213-005	Phillips-Head Screw, M4x10	1
6	MM1213-006	Rear Support	1
7	MM1213-007	Fence	1
8	MM1213-008	Screw Knob, M6x8	2
9	MM1014-007	Screw Knob, M6x30	1
10	MM1213-010	Socket Head Cap Screw, M6x20	2
13	MM1213-013	Socket Head Cap Screw, M8x20	4
14	MM1213-014	Left Fence Extension	1
15	MM1213-015	Right Fence Extension	1
17	MM1213-017	Bevel Locking Handle	1
18	MM1213-018	Washer, 8x22x2	1
19	MM1213-019	Bevel Axle	1
20	MM1213-020	Lock Nut, M10	2
21	MM1213-021	Locking Axle	1
22	MM1014-062	Round Nut	1
23	MM1213-023	O-ring, 9x2mm	1
24	MM1213-024	Dowel Pin	1
25	MM1213-025	Bevel Arm	1
27	MM1213-027	Socket Head Cap Screw, M8x25	2
28	MM1213-028	Bevel Scale Label	1
29	MM1014-037	Lock Nut, M8	2
30	MM1213-030	Socket Head Cap Screw, M8x50	1
31	MM1213-031	Socket Head Cap Screw, M6x25	1
32	MM1213-032	Socket Head Cap Screw, M8x25	2
34	MM1213-034	Miter Pointer	1
39	MM1213-039	Hex Bolt, M6x40	1
40	MM1213-040	Locking Lever	1
41	MM1213-041	Support Rod	2
42	MM1014-031	Locking Lever Spring	1
43	MM1014-030	Hex Lock Nut, M6	2
44	MM1213-044	Miter Knob Cap	1
45	MM1014-054	Phillips-head Screw with Flange, M5x16	2

No.	Part. No.	Description	Qty.
46	MM1213-046ASM	Miter Knob	1
47	MM1213-047	Miter Locking Rod	1
48	MM1213-048	Center Slotted Nut, M10x20	1
49	MM1213-049	Lock Washer	1
51	MM1213-051	Miter Table	1
52	MM1213-052	Table Insert	1
53	MM1213-053	Set Screw, M4x12	9
54	MM1213-054	Phillips Screw, M5x10	5
55	MM1213-055	Rail Cover	2
56	MM1014-007	Screw Knob, M6x30	1
57	MM1213-057	Bevel Pointer	1
59	MM1213-059	Linear Bearing, 30x45x35mm	4
62	MM1213-062	Connecting Rod	1
64	MM1014-038	Socket Head Cap Screw, M8x30	1
65	MM1213-065	Axle	1
67	MM1213-067	Locking Pin	1
68	MM1213-068	Circlip, 6mm	2
69	MM1213-069	Spring Pin, 6x40mm	2
70	MM1213-070	Pivot Bracket	1
71	MM1213-071	Rail	2
73	MM1213-073	Rear Handle	1
74	MM1014-094	Nut, M6	3
75	MM1213-075	Socket Head Cap Screw, M6x14	2
77	MM1213-077	Power Cord Strain Relief	1
78	MM1213-078	Power Cord	1
79	MM1213-079	Hex Bolt, M6x16	2
80	MM1213-080ASM	Blade Guard Cover Plate Assembly	1
81	MM1213-081	Blade Guard Cover Spring	1
83	MM1213-083	Phillips Head Screw, M6x10	1
85	MM1213-085	Sleeve	1
86	MM1213-086	Blade Guard	1
87	MM1213-087	Self-tapping Screw with Washer, ST4x15	2
88	MM1014-075	Blade Guard Wheel	2

EXPLODED VIEW & PARTS LIST

No.	Part. No.	Description	Qty.
89	MM1213-089	Phillips Head Screw, M4x14	3
90	MM1213-090	Arbor Bolt, M8x20	1
91	MM1213-091	Outer Flange	1
N.P.	BL1248	Blade	
92	MM1213-092	Inner Flange	1
96	MM1213-096	Ball Bearing, 6003	1
98	MM1213-098	Oil Seal	1
99	MM1213-099	Output Shaft	1
100	MM1014-082	Woodruff Key, 5x16mm	1
101	MM1213-101	Self-locking Plate	1
102	MM1213-102	Large Gear	1
103	MM1213-103	Circlip, 16mm	1
104	MM1213-104	Ball Bearing, 6000	1
105	MM1014-092	Set Screw, M6x10	1
108	MM1213-108	Circlip, 12mm	1
109	MM1213-109	Woodruff Key, 4x13mm	1
110	MM1213-110	Small Gear	1
112	MM1014-087	Ball Bearing, 6202RS	1
115	MM1213-115	Belt Pulley	1
116	MM1213-116	Square Key, 5x20mm	1
117	MM1213-117	Washer, 6x25x3mm	1
118	MM1213-118	Socket Head Cap Screw, M6x20, LH	1
119	MM1213-119	Belt, 12PH490	1
120	MM1213-120	Belt Cover	1
121	MM1213-121	Phillips Head Screw, M5x20	2
122	MM1213-122	Self-locking Spring	1
123	MM1213-123	Slotted Self-locking Pin	1
130	MM1213-130	Self-tapping Screw, ST3.9x14	4
131	MM1014-121	Power Cord Clamp	1
133	MM1213-133	Secondary Power Cor	1
134	MM1213-134	Handle, Left	1
135	MM1213-135	Handle, Right	1
136	MM1213-136	Self-tapping Screw, ST3.9x25	2
137	MM1213-137	Phillips Head Screw, M5x25	4

No.	Part. No.	Description	Qty.
138	MM1213-138	Terminal Box Cover	1
139	MM1014-177	Wiring Terminal	4
140	MM1213-140	Terminal Box	1
141	MM1213-141	Screw Knob, M6x50	1
142	MM1014-096	Knurled Thin Nut, M6	1
143	MM1213-143	Depth Stop Bracket	1
144	MM1014-048	Cord Clamp	1
149	MM1213-149	Ball Bearing, 6002	1
151	MM1213-151	Ball Bearing, 6200	1
210	MM1014-018	Washer, 10x25x2mm	1
211	MM1213-211	Nut, M8	1
212	MM1213-212	Flat-head Screw, M4x8	1
213	MM1213-213	Phillips-head Screw, M5x12	1
214	MM1014-021	Phillips-head Screw, M4x10	2
215	MM1213-215	Washer, 10x20x1.2mm	1
216	MM1213-216	Flat-head Screw, M5x10	2
217	MM1014-047	Phillips-head Screw, M5x10	1
218	MM1213-218	Torsion Spring	1
219	MM1213-219	O-ring, 8x1.5mm	1
220	MM1213-220	Large Cover Screw	1
221	MM1213-221	Large Cover Screw	1
222	MM1213-222	Brush Holder	2
223	MM1213-223	Carbon Brush, Set of 2	1
224	MM1213-224	Brush Cover	2
225	MM1213-225	Bearing Seat	1
226	MM1213-226	Phillips Head Screw, M5x20	4
227	MM1213-227	Gearbox Cover	1
228	MM1213-228	Ball Bearing, 629	1
229	MM1213-229	Gear Shaft	1
230	MM1213-230	Threaded Sleeve	1
231	MM1213-231	Epoxy Gasket, 15x25x2mm	1
232	MM1213-232	Shield Plate	1
233	MM1213-233	Motor Cover	1
234	MM1213-234	Phillips Head Screw, M5x40	4
235	MM1213-235	Motor Housing	1

EXPLODED VIEW & PARTS LIST

No.	Part. No.	Description	Qty.
236	MM1213-236	Tension Spring	2
237	MM1213-237	Stator	1
238	MM1213-238	Self-tapping Screw, ST5x65	2
239	MM1213-239	Rotor	1
240	MM1213-240	Dust Cover	1
241	MM1213-241	Fan Shroud	1
242	MM1213-242	Flat Machine Screw, M6x10	1
243	MM1213-243	Dust Hose Adapter	1
244	MM1213-244	Self-tapping Screw, ST4x12	1
245	MM1213-245	Upper Housing	1
246	MM1213-246	Phillips Head Screw, M5x12	2
249	MM1213-249	Phillips Head Screw, M5x16	1
250	MM1213-250	Strain Relief	1
252	MM1213-252	Phillips Head Screw, M5x35	4
253	MM1213-253	Self-tapping Screw, ST3.9x25	2
256	MM1213-256	Base	1
257	MM1213-257	Rubber Foot	4
300	MM1213-300	Upper Handle Housing	1
301	MM1213-301	Lower Handle Housing	1
303	MM1213-303	Power Switch	1
304	MM1213-304	Trigger Button Assembly	1
304-1	MM1213-304-1	Switch Trigger	1
304-2	MM1213-304-2	Switch Self-Locking Plate	1
304-3	MM1213-304-3	Self-locking Spring	1
304-4	MM1213-304-4	Rivet, 2x18	1
304-5	MM1213-304-5	Switch Trigger Spring	1
161	MM1213-161	Countersunk Self-Tap- ping Screw, ST4.2x10	2
162	MM1213-162	LED Light Plate	1
163	MM1213-163ASM	LED Light	1
164	MM1213-164	Transparent Cover	1
165	MM1213-165	Laser	1

No.	Part. No.	Description	Qty.
305	MM1213-305	Laser Housing	1
167	MM1213-167	Phillips Head Screw, M4x12	2
306	MM1213-306	Laser Cover	1
307	MM1213-307	PCB	1
308	MM1213-308	Button Seat	1
309	MM1213-309	Button Rod	1
310	MM1213-310	Laser Rear Cover	1
176	MM1213-176	Left Table Extension Assembly	1
176-1	MM1213-176-1	Phillips Head Screw, M5x14	1
176-3	MM1213-176-3	Left Stop Plate	1
176-4	MM1213-176-4	Left Extension	1
176-5	MM1213-176-5	Phillips Head Screw, M5x16	2
176-6	MM1213-176-6	Extension Rod	2
176-7	MM1213-176-7	Phillips Head Screw, M4x10	2
176-8	MM1213-176-8	Lock Nut, M5	1
177	MM1213-177	Right Table Extension Assembly	1
177-1	MM1213-177-1	Extension Rod	2
177-2	MM1213-177-2	Lock Nut, M5	1
177-3	MM1213-177-3	Phillips Head Screw, M4x10	2
177-4	MM1213-177-4	Phillips Head Screw, M5x16	2
177-5	MM1213-177-5	Right Table	1
177-6	MM1213-177-6	Right Stop Plate	1
177-7	MM1213-177-7	Phillips Head Screw, M5x14	1
174	MM1213-174	Dust Bag	1
178	MM1213-178	Hex Wrench, 6mm	1
175	MM1213-175ASM	Workpiece Clamp	1
175-1	MM1213-175-1	Clamp Knob	1
175-2	MM1213-175-2	Clamp Arm	1
175-3	MM1213-175-3	Clamp Block	1
175-4	MM1213-175-4	Screw, M5x7	1
175-5	MM1213-175-5	Clamp Rod	1
175-6	MM1213-175-6	Screw Knob, M6x15	1

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SELLER’S SOLE OBLIGATION AND YOUR EXCLUSIVE REMEDY under this Limited Warranty and, to the extent permitted by law, any warranty or condition implied by law, shall be the replacement of parts, without charge, which are defective in material or workmanship and which have not been subjected to misuse, alteration, careless handling, misrepair, abuse, neglect, normal wear and tear, improper maintenance, or other conditions adversely affecting the Product or the component of the Product, whether by accident or intentionally, by persons other than Seller. To make a claim under this Limited Warranty, you must make sure to keep a copy of your proof of purchase that clearly defines the Date of Purchase (month and year) and the Place of Purchase. Place of Purchase must be a direct vendor of Great Lakes Technologies, LLC. Purchasing through third party vendors, including but not limited to garage sales, pawn shops, resale shops, or any other secondhand merchant, voids the warranty included with this product. Contact techsupport@wenproducts.com or 1-847-429-9263 with the following information to make arrangements: your shipping address, phone number, serial number, required part numbers, and proof of purchase. Damaged or defective parts and products may need to be sent to WEN before the replacements can be shipped out.

Upon the confirmation of a WEN representative, your product may qualify for repairs and service work. When returning a product for warranty service, the shipping charges must be prepaid by the purchaser. The product must be shipped in its original container (or an equivalent), properly packed to withstand the hazards of shipment. The product must be fully insured with a copy of the proof of purchase enclosed. There must also be a description of the problem in order to help our repairs department diagnose and fix the issue. Repairs will be made and the product will be returned and shipped back to the purchaser at no charge for addresses within the contiguous United States.

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REMEMBERING**

